

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5259-01

Page 1 of 2

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Hopper Scale Retro-Fit Kit and Hopper Scale
Load Cell Electronic
Model: SG Series (See Table Below)
 n_{\max} : 1000
Capacity: See Table Below

Accuracy Class: III L

Submitted by:

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Standard Features and Options

<u>Retro-Fit Kit Series</u>			
<u>Model Number</u>	<u>Capacity (lb)</u>	<u>Load Cell Capacity (lb)</u>	<u>Number of Cells</u>
SG33K	3000	2000	3
SG35K	5000	2500	3
SG310K	10 000	5000	3
SG45K	5000	2500	4
SG410K	10 000	5000	4
SG420K	20 000	10 000	4
SG440K	40 000	20 000	4
<u>Hopper Scale</u>			
SG340K	40 000	20 000	3

The gross capacity of the scale cannot exceed the summed capacity of the load cells minus the weight of the hopper or the capacity of the original scale, whichever is less.

Load Cell Type: Artech, Model 20210 Series (Certificate of Approval Number 3198(b)-90) or certified equivalent.

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

These devices were evaluated under the California Type Evaluation Program (CTEP) and were found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: April 24, 2001

Mike Cleary, Director

**Allpro Scale Corp.
Hopper Scale Retro-Fit Kit and Hopper Scale
Model: SG Series**

Application: Construction material hopper scale for use with compatible and certified indicating elements. The retro-fit kit is designed to replace mechanical hopper scale levers. The capacity of the retro-fit scale cannot be greater than the original scale.

Identification: An identification plate is permanently mounted on the side of each hopper.

Sealing: The load cell junction box may be sealed with a wire security seal. Additionally, the overall calibration can be sealed at the indicating element.

Operation: The retro-fit kit consists of mounting hardware and digital electronic load cells that replace mechanical levers on a hopper scale. The mounting hardware (steelyard rods) suspends the scale with three or four (depending on the model) digital electronic load cells in a level position. The Model SG340K is not a retro-fit kit and the hopper is suspended by three load cells. The weighing element is then interfaced to a compatible digital weight indicator.

Test Conditions: This Certificate is issued to private label Allpro Scale Corp. Model SG Series. The Allpro Scale Corp. Model SG Series is identical to the Allstar Scale Service Corporation Model AS Series (Certificate of Approval Number 4776(a)-00) except for the name under which it is marketed. The test conditions for Allstar Scale Service Corporation Model AS Series are repeated below for reference.

Certificate of Approval Number 4776(a)-00: This certificate superseded Certificate of Approval Number 4776-98 and was issued to include the Model AS340K hopper scale and to include the test conditions for the Model AS33K retro-fit kit. These were inadvertently omitted on the original certificate. The Model AS340K (40 000 lb capacity) hopper scale was submitted for evaluation. The emphasis of the evaluation was on the performance of the hopper scale including motion detection. The hopper scale was tested to 33 000 lb with 13 000 lb of known test weights and 20 000 lb of material. The scale was used for approximately 40 days and retested.

Certificate of Approval Number 4776-98: The emphasis of the evaluation was on the hopper scale retro-fit kit performance including motion detection. A 20 000 lb capacity scale was tested to capacity with 10 000 lb of known test weights and 10 000 lb of material. A 3000 lb capacity scale was also tested using 3000 lb of known test weights. The scales were in use for approximately 45 days and retested.

The results of the evaluations indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2001 Edition

Tested By: G. Castro (CA), J. Delperdang (CA) (4776-98); G. Castro and D. Parks (CA) (4776(a)-00)

Update Reviewed By: Dan Parks (CA)